

**SPECIAL SPECIFICATION**  
**SECTION 25010S**  
**BASIC TELECOMMUNICATION REQUIREMENTS**

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## **SPECIAL SPECIFICATION**

### **SECTION 25010S**

#### **BASIC TELECOMMUNICATIONS REQUIREMENTS**

##### **PART 1 - GENERAL**

##### **1.01 DESCRIPTION OF WORK**

- A. Section Includes: Material and installation of all telecommunications infrastructure for MESA Project-related construction projects at Sandia National Laboratories, New Mexico (SNL/NM).
  - 1. Telecommunications system installation and testing shall be performed only by a licensed telecommunications contractor that is certified by Avaya, Inc. as a Value-added Reseller (VAR) for their telecommunication products.
  - 2. Where telecommunications installation work is performed as part of a subcontract for a larger project, the General Contractor shall subcontract directly to the telecommunications subcontractor.
  - 3. Exterior and interior raceway systems shall be installed by a licensed and qualified telecommunications contractor or an electrical contractor under subcontract with a licensed and qualified telecommunications contractor. A qualified telecommunications contractor is a company that is certified as an Avaya, Inc. VAR.
  - 4. Cable terminations and testing shall be performed only by installers who are BICSI-certified at the Technician II level, as a minimum.
  - 5. Additional requirements for the telecommunications contractor are found in Division 25, Section "Quality Assurance and Documentation."
- B. Drawings shall delineate all telecommunications infrastructure by location of Main Distribution Room (MDR) or Intermediate Distribution Room (IDR); user outlets; and rack (frame) and cabinet locations. This shall include inter-building and intra-building cabling systems with all communications manholes and cable access points.
- C. Project may contain both Red - Sandia Classified Network (SCN), and Black - Sandia Restricted Network (SRN) and Sandia Open Network (SON) systems.
- D. Project may have Contractor-furnished material and/or Sandia-furnished material (SFM) as detailed in Statement of Work and/or elsewhere in Contract documents.
- E. All or part of Work may be included in Project, as stated in Contract documents.

F. Related Sections: Refer to the following sections for related work.

1. Division 1, Section “Descriptive Submittals.”
2. Division 1, Section “Environment, Safety and Health for construction and Maintenance Service Contracts.”
3. Division 25, Section “Quality Assurance and Documentation.”
4. Division 25, Section “Administration Requirements.”
5. Division 25, Section “Telecommunications Equipment Rooms”
6. Division 25, Section “Main Distribution Frames and Service Entrances.”
7. Division 25, Section “Interior Telecommunications Pathways”
8. Division 25, Section “Telecommunications Cabling.”

#### 1.02 REFERENCES

References are as listed in other sections of the specifications.

#### 1.03 DEFINITIONS

- A. Intra-Building Cable: Network Cable within building.
- B. Inter-Building Cable: Network Cable between buildings.

#### 1.05 QUALITY ASSURANCE

Quality Assurance shall be as delineated in Division 25, Section “Quality Assurance and Documentation.”

### PART 2 - PRODUCTS

#### 2.01 GENERAL

- A. Provide products that are new and currently in production.
- B. Do not use materials and equipment that have been removed from existing premises, except as specifically and expressly permitted by Contract documents or SDR.
- C. Products will be specified by industry standard names, unless specifically noted otherwise.
- D. Devices and equipment submitted for approval shall be used for the purpose intended. No deviation from SNL requirements and standards shall be permitted.

END OF SECTION